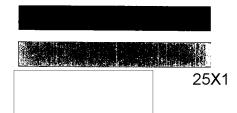
Top Secret





NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Summary Report

PROBABLE MOBILE VERSION OF RAMONA ELINT SYSTEM IDENTIFIED IN CZECHOSLOVAKIA (TSR)

Top Secret

²5**X**1

SR-020/79

APRIL 1979

Copy 133



Sanitized Copy Approved for Release 2010/03/29 : CIA-RDP79T01184A000200050001-3 Top Secret RUFF 25X1 25X1 PROBABLE MOBILE VERSION OF RAMONA ELINT SYSTEM IDENTIFIED IN CZECHOSLOVAKIA (TSR) (TSR) 25X1 the production and testing of a mobile version of the Ramona automated ELINT collection and target locating system in Czechoslovakia. Detailed analysis of indicates that this mobile 25X1 version, the Ramona-M, was probably present at Opatovice Army Barracks 001 25X1 Czechoslovakia. Equipment observed included a sphere on a 25X1 mast, two van trailers, and one van truck. The mast appeared to be cable 25X1 connected to a van trailer (Figure 1). (TSRU) The Ramona-M system reportedly has been under development since June 1975 and has undergone prototype testing between March and December 1978. The Ramona-M at Opatovice 001 was probably undergoing prototype testing when imaged on 25X1 25X1 (TSRU) Recent reports indicate that acceptance testing of the mobile Ramona-M will take place from March to September 1979. It is scheduled to be released to the armed forces in late 1979.1 (TSRU) The operation of the mobile Ramona-M reportedly is similar to that of the fixed Ramona system which consists of a center station with two flank stations approximately 15 nautical miles apart. The time difference of arrival of signals from the flank stations to the center station determines the target's location. An attache photograph shows a probable Ramona-M at Chrudim, Czechoslovakia, in September 1978 (Figure 2).2 (S) Comments and queries regarding this report are welcome. They may be directed to Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, 25X1 - 1 -

Sanitized Copy Approved for Release 2010/03/29: CIA-RDP79T01184A000200050001-3



Top Secret RUFF

25X1

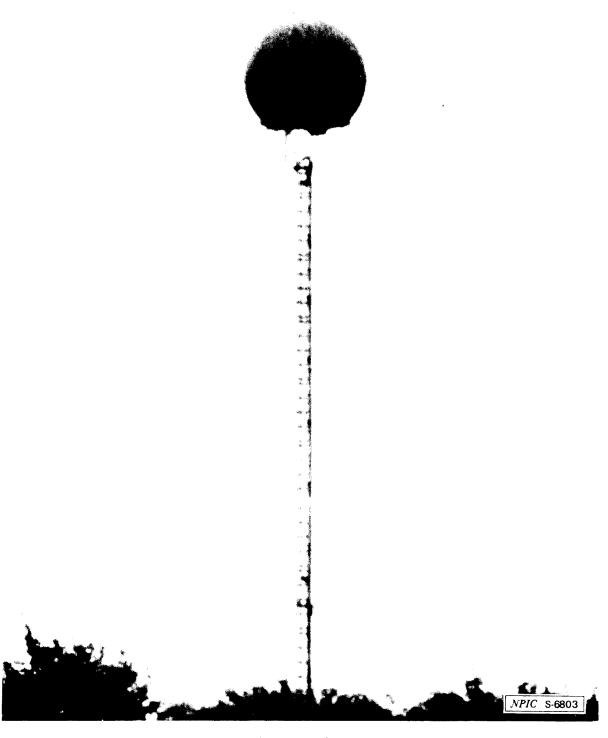


FIGURE 2. GROUND PHOTOGRAPH OF RAMONA-M AT CHRUDIM, CZECHOSLOVAKIA. Photograph taken from Reference Document 2.

- 3 -

		251
Top Secret R	UFF	25 X ′
·		
,		•
) .	:
		:
	•	,
PERM	DENGE	
	RENCES	7
CUMENTS		
1. NSA. Report No 3/00/30540-78, Czechosloval Collection System, 14 Sep 78 (TOP SECRET	kia Developing Mobile Version of the Ramona ELINT	25 X 1
2. DoD. IR 40/78, 6824-0307-78, Sep 78 (CONFIL	DENTIAL)	
LATED DOCUMENTS		ı
NSA. 3/00/8862-79, Czechoslovaks Prepare for II (TSC), 082233Z Mar 79 (TOP SECRET	Military Testing of Mobile ELINT Collection System	25X1
NSA. 3/00/5224-79, Development of Czechoslova 091528Z Feb 79 (TOP SECRET	k Mobile ELINT Collection System Continues (TSC),	25 X ′
NSA. 3/00/35411-78, Czechoslovakia Schedules T April to September 1979, 231416Z Oct 78 (TC	Tests of Probable Mobile Ramona ELINT System from OP SECRET	25 X 1
NSA. Report No 3/00/13809-76, The Czechoslova warding System, Ramona, as of April 1976, 2	ak Automated ELINT Collection and Information For- 9 Apr 76 (TOP SECRET	25 X ′
	ed ELINT Collection and Information Forwarding Sys-	25X1
,		
		•
		,

. 4 -

List of Conversion Factors by Classification

UNITS OF LENGTH

UNITS OF MASS

IF YOU HAVE	MULTIPLY BY	TO OBTAIN	IF YOU HAVE	MULTIPLY BY	TO OBTAIN	
MILLIMETERS	0.0394	INCHES	KILOGRAMS	2.2046	POUNDS(AVOIR.)	
CENTIMETERS	0.3937	INCHES	POUNDS(AVOIR.)	0.4536	KILOGRAMS	
INCHES	25.4000	MILLIMETERS	SHORT TONS	0.9072	METRIC TONS	
INCHES	2.5400	CENTIMETERS	METRIC TONS	1.1023	SHORT TONS	
FEET	0.3048	METERS	METRIC TONS	0.9842	LONG TONS	
FEET	0.0003	KILOMETERS	LONG TONS	1.0160	METRIC TONS	
YARDS	0.9144	METERS				
METERS	3.2808	FEET				
METERS	0.0005	MILES(NAUTICAL)				
METERS	1.0936	YARDS	U	NITS OF VOL	UME	
KILOMETERS	3280.8400	FEET				
KILOMETERS	0.6214	MILES(STATUTE)	IF YOU HAVE	MULTIPLY BY	TO OBTAIN	
KILOMETERS	0.5400	MILES(NAUTICAL)	LITERS	0.2642	GALLONS	
MILES(STATUTE)	1.6093	KILOMETERS	LITERS	0.0063	BARRELS(POL)	
MILES(NAUTICAL)	6076.1154	FEET	LITERS	0.0010	CUBIC METERS	
MILES(NAUTICAL)	1.8520	KILOMETERS	GALLONS	3.7854	LITERS	
MILES(NAUTICAL)	1852.0000	METERS	GALLONS	0.1337	CUBIC FEET	
			GALLONS	0.0238	BARRELS(POL)	
			GALLONS	0.0038	CUBIC METERS	
			BUSHELS	0.0352	CUBIC METERS	
U	INITS OF AR	EA	CUBIC FEET	7.4805	GALLONS	
IF YOU HAVE	MULTIPLY BY	TO OBTAIN	CUBIC FEET	0.1781	BARRELS(POL)	
SQUARE CENTIMETERS	0.1550	SQUARE INCHES	CUBIC FEET	0.0283	CUBIC METERS	
SQUARE INCHES	6.4516	SQUARE CENTIMETERS	CUBIC YARDS	0.7646	CUBIC METERS	
SQUARE FEET	0.0929	SQUARE METERS	BARRELS(POL)	158.9873	LITERS	
SQUARE YARDS	0.8361	SQUARE METERS	BARRELS(POL)	42.0000	GALLONS	
SQUARE METERS	10.7639	SQUARE FEET	BARRELS(POL)	5.6146	CUBIC FEET	
SQUARE METERS	1.1960	SQUARE YARDS	BARRELS(POL)	0.1590	CUBIC METERS	
SQUARE METERS	1.0000	CENTARES	CUBIC METERS	1000.0000	LITERS	
SQUARE METERS	0.0002	ACRES	CUBIC METERS	264.1721	GALLONS	
SQUARE METERS	0.0001	HECTARES	CUBIC METERS	35.3147	CUBIC FEET	
ACRES	4046.8564	SQUARE METERS	CUBIC METERS	28.3776	BUSHELS	
ACRES	0.4047	HECTARES	CUBIC METERS	6.2898	BARRELS(POL)	
HECTARES	10000.0000	SQUARE METERS	CUBIC METERS	1.3080	CUBIC YARDS	
HECTARES	2.4711	ACRES				

Top Secret

